



NUMBER 4462-4 (Supersedes 4462-3)

Aquaflow™ NHS-350 nonionic synthetic associative thickener

For High- to Mid-Shear (ICI/KU) Viscosity building in Low-VOC Waterborne Paints and Coatings

Aquaflow NHS-350 rheology modifier is a solvent-free, nonionic synthetic associative thickener (NSAT) designed for waterborne paint and coatings and is compatible with most latex resin systems. This thickener provides efficient ICI viscosity development, excellent film build and favorable brush drag. It is intended to be used in combination with a low-shear effective NSAT (KU driver) for the optimal balance of Stormer (KU) and ICI viscosity.

As an APEO-free and solvent-free product, Aquaflow NHS-350 rheology modifier is recommended for low-VOC formulations. It is supplied as a liquid for ease of handling. The performance of the product is independent of paint pH.

Typical Properties^(a)

Chemical Type	hydrophobically modified polyether
Appearance.....	clear, light amber liquid
Carrier	water/surfactant (nonionic)
Active Solids, wt. %	17.5% nominal
Viscosity ^(b) as supplied, mPa*s (cps).....	< 4,000
Density, lb/gal	8.5
g/mL.....	1.02
pH, as-is solution	6 - 8

(a) Values are typical properties and are not to be regarded as product specifications.

(b) Brookfield LV readings at 25°C.

Product Benefits

- Cost effective ICI driver
- Can reduce KU driver demand
- Outstanding brush drag and film build
- Superior flow and leveling
- Excellent spatter resistance
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- Full gloss development
- pH insensitive
- Solvent free
- Biostable

Applications

Aquaflow NHS-350 NSAT can be used in a variety of paint formulations and is fully compatible with other rheology modifiers.

When used as the sole thickener, some low shear NSATs will exhibit excellent anti-sag properties but may also adversely impact the flow and leveling. The addition of a high shear thickener to such systems will provide the excellent sag resistance and flow and leveling balance.



Incorporation

It is recommended that Aquaflow™ NHS-350 rheology modifier be incorporated into the paint formulation before the addition of the latex.

Volatile Organic Compounds (VOC)

Aquaflow NHS-350 rheology modifier is formulated as solvent-free. As such, this product will have negligible contribution to the VOC content of formulated paints and coatings as determined by US EPA Reference Method 24.

APEO Content

Aquaflow NHS-350 rheology modifier does not contain any alkyl phenol ethoxylates (APEOs).

Packaging and Storage

Aquaflow NHS-350 NSAT is supplied in plastic drums of 200 kilos net or in totes of 1050 kilos net. It is recommended to use the product in rotation on a first-in-first-out basis. The product should be stored under dry and clean conditions at room temperature in its original packing away from heat.

Product Safety

Please read and understand the SDS before using this product.